



PVR™-1

**Omnidirectional
Microphone**

SPECIFICATIONS:

Frequency Response
40 Hz - 20 kHz

Type
Electret condenser

Directional Characteristics
Omnidirectional

Sensitivity
-52 dBV (0 dB = 1V/microbar)

Maximum SPL
135 dB

Impedance
250 ohms

Case
Brass

Windscreen
Chrome plated, stainless steel wire mesh

Dimensions
5.5" long × .865" diameter (14 cm × 2.2 cm)

Weight
8 oz. (135 grams)

Accessories Included
Foam pop filter, swivel adaptor, lined metal storage case

Connector
XLR-3M

Cables Required

Low impedance operation: Use standard two-conductor with shield microphone cable with XLR-3 type connectors

High impedance operation: A standard XLR-type microphone cable must be used between the microphone and an external phantom power supply. A microphone cable with integral impedance converter should be used between the phantom supply output and a high impedance microphone input.

FEATURES:

- Omnidirectional polar pattern
- Smooth frequency response suitable for vocal or instrument applications
- Chrome plated, stainless steel wire mesh windscreen
- Brass case
- Improved shock mounting
- No proximity effect

DESCRIPTION AND APPLICATIONS

The PVR-1 microphone will maximize the fidelity of most any recording process. It is capable of providing transparent signals in both the traditional live recording using a small number of microphones and in the contemporary studio recording using close microphone techniques. The PVR-1 displays excellent transient response in addition to a broad bandwidth and smooth frequency response to assure the highest fidelity.

The PVR-1 utilizes a small condenser element (diaphragm) to minimize diffraction, in addition to minimizing the directionality of high frequency material.

High-quality FET electronics have been incorporated to provide extremely low noise and sonic excellence in capturing even the most minute qualities in any given sound.

The low noise of the PVR-1 and its ability to capture high sound pressure levels (without audible distortion) provides exceptional dynamic range. This allows the softest of pianissimos and the loudest of fortissimos to be captured by the PVR-1, making it an excellent choice for quality recording or sound reinforcement applications.

OMNIDIRECTIONAL PATTERN

The PVR-1 microphone has an omnidirectional pickup pattern. Omnidirectional microphones are equally sensitive from the front, sides and rear. This provides the microphone with the ability to pickup all sounds equally, regardless of their orientation relative to the microphone. It must be kept in mind that for recording studio purposes an omnidirectional microphone will pickup far more leakage. In live performance or PA applications omni's are far more susceptible to acoustic feedback because of their non-directionality.

When the PVR-1 is used to record acoustic instruments in the far-field of an auditorium environment, the natural room ambience is picked up so that the reproduced signal includes the subtle nuances of the room characteristics. The microphone is small and unobtrusive which allows installation in most any environment where aesthetics are important.

The PVR-1 can also be used for studio-type multi-track recording in situations

where you desire no proximity effect. This microphone will display the same frequency response characteristics in the near field (close miked) and in the far field (distant miked), without the normal increase in low frequency response that is contributed by cardioid-type microphones.

ARCHITECTURAL SPECIFICATIONS

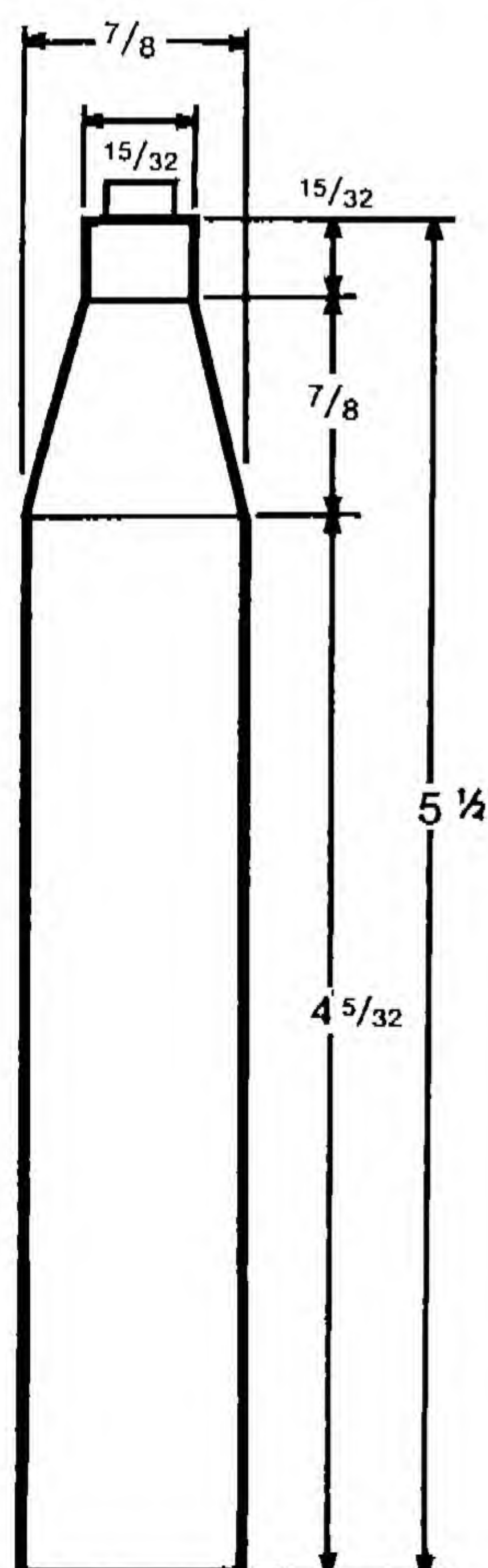
The microphone shall be an electret condenser omnidirectional type with a uniform frequency response of 40-20,000 Hz. The microphone shall have an output level of -52 dB (0 dB = 1 V/microbar). The microphone will exhibit little (if any) off-axis attenuation. The microphone shall use a shock-mounted electret condenser element that provides stability, long life, and high impact strength while having an output not appreciably affected by temperature and/or humidity extremes from -18.8° C (0° F) to 54.4° C (130° F). The case finish of the microphone shall be brass and the finish shall be non-reflecting black color paint. The mic shall have a matte black head shaped to reduce sound diffraction (shadowing) to improve the omni pattern.

PHANTOM POWER

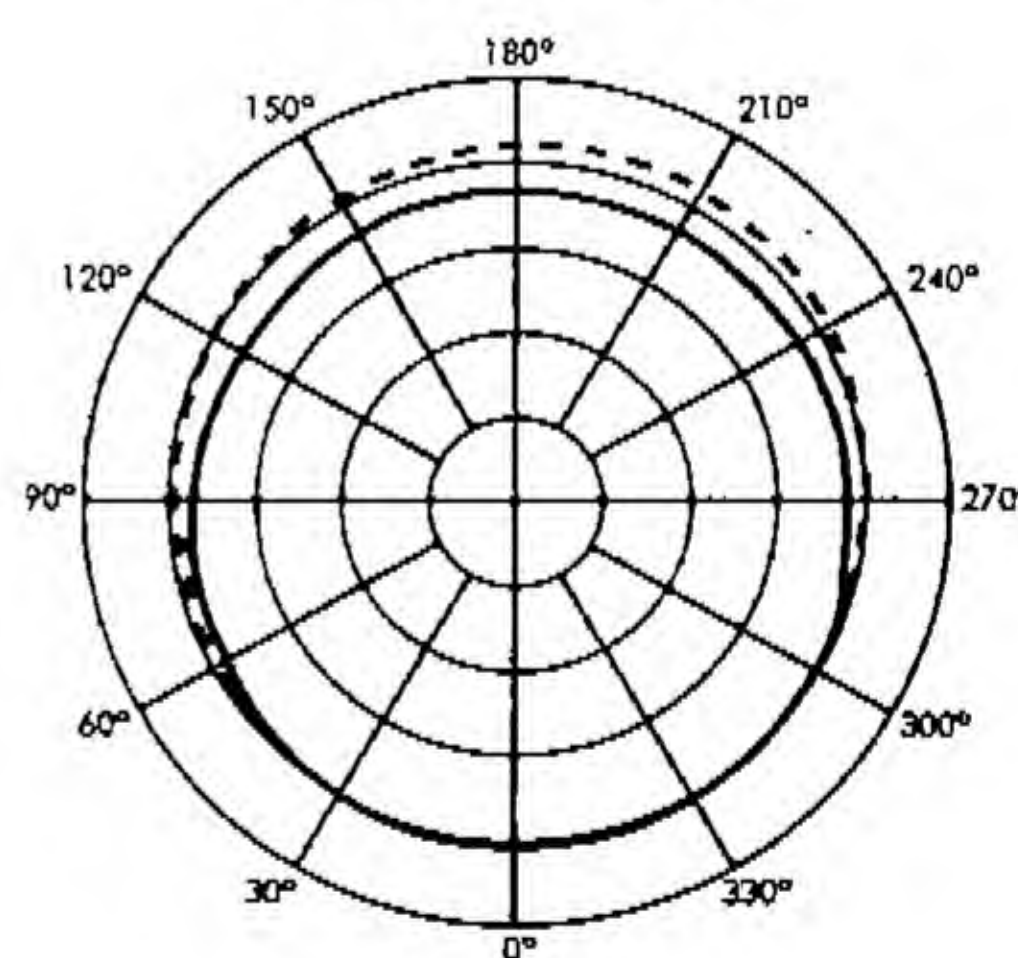
The PVR-1 requires external phantom power to drive the electronics. This microphone will not accommodate internal batteries. Any mixer with phantom power or any outboard phantom supply in the range of 9 to 52 volts DC may be used. The PVR-1 has an internal voltage regulation circuit that will see that the internal electronics receive the proper voltage, even when used on higher voltage phantom power supplies (52 volts DC). In absence of phantom power in your mixer, we recommend the Peavey PS2B battery powered supply for two microphones, or the PS-4AC AC powered supply for four microphones.

PLUGGING AND UNPLUGGING ELECTRETS

When plugging electret condenser microphones into audio mixers, it is advised that the channel gain be reduced to zero to eliminate the possibility of a transient "thump". The channel gain should also be reduced to zero when unplugging and when switching phantom power on or off.



Polar Pattern



Frequency Response

